**PO, PSO: (for the programmes offered by the department)**

**Programme Outcomes for UG Programmes:**

**At the end of the programme, students will be able to**

| **PO**  **Number** | **PO Statement** |
| --- | --- |
| **PO1** | **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives. |
| **PO2** | **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology. |
| **PO3** | **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings. |
| **PO4** | **Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering. |
| **PO5** | **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them. |
| **PO6** | **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development. |
| **PO7** | **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes. |

**Programme Outcomes for PG Programmes:**

**At the end of the programme, students will be able to**

| **PO**  **Number** | **PO Statement** |
| --- | --- |
| **PO1** | **Critical Thinking**: Apply Mathematical and computational strategies in order  to solve real world problems. |
| **PO2** | **Effective Communication**: Communicate Mathematical concepts in oral and written form. |
| **PO3** | **Social Interaction**: Identify the accurate solutions for the society oriented problems  via various Mathematical models and projects. |
| **PO4** | **Effective Citizenship**: Attain the ability to identify, formulate and solve challenging problems of the society and nation through Mathematics. |
| **PO5** | **Ethics:** Inculcate the ethical responsibilities via Mathematical concepts. |
| **PO6** | **Environment and Sustainability**: Instill a sense of attitude in tackling social and  environmental issues |
| **PO7** | **Self-directed and Life-long Learning**: Identify their own educational and career  needs from the global challenges. |

**Programme Specific Outcomes for B.Sc Mathematics:**

**At the end of the programme, students will be equipped with the Knowledge in**

| **PSO**  **Number** | **PO Statement** |
| --- | --- |
| **PSO1** | Developing analytical skills, attitude, critical thinking and searching for conclusions to the problems arising from complicated structures. |
| **PSO2** | Attaining a rigorous and intellectual pursuit which helps to find patterns and structures. |
| **PSO3** | Strengthening the high level of employability and higher education. |
| **PSO4** | Improving their performance to appear for Competitive examinations. |
| **PSO5** | Investigate real life problems and learn to solve them through formulating Mathematical models. |

**Programme Specific Outcomes for M.Sc Mathematics:**

**At the end of the programme, students will be equipped with the Knowledge in**

| **PSO**  **Number** | **PO Statement** |
| --- | --- |
| **PSO1** | Develop the Mathematical skills and knowledge from abstract and applied  Mathematical concepts. |
| **PSO2** | Acquire analytical and logical thinking through various Mathematical tools and  techniques.. |
| **PSO3** | Attain in-depth knowledge to pursue higher studies, work as a professional and ability  to conduct research. |
| **PSO4** | Develop a deep knowledge in Mathematics appreciating the connections between  theory and its applications. |
| **PSO5** | Identify the applications of Mathematics in other disciplines and society. |